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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/010,925	12/07/2001	Toshiyuki Mima	791 176	5613
25191	7590 03/02/2004		EXAMINER	
BURR & BROWN			KOSOWSKI, ALEXANDER J	
PO BOX 7068 SYRACUSE, NY 13261-7068			ART UNIT	PAPER NUMBER
			2125	· -
			DATE MAILED: 03/02/2004	, 7

Please find below and/or attached an Office communication concerning this application or proceeding.



		<u></u>			
	Application No.	Applicant(s)			
	10/010,925	MIMA, TOSHIYUKI			
Office Action Summary	Examiner	Art Unit			
	Alexander J Kosowski	2125			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period vor Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days vill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 15 De	ecember 2003.	·			
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Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-7 and 15 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-7 and 15 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on <u>07 December 2001</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	re: a) \square accepted or b) \square object drawing(s) be held in abeyance. See ion is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Markov and A					
Attachment(s) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da				
Patent and Trademark Office					

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Art Unit: 2125

DETAILED ACTION

1) Claims 1-7 and 15 are presented for examination in light of the amendment filed 12/15/03.

Specification

2) The objections to the specification from the last office action are withdrawn in light of the substitute specification filed 12/15/03, which the examiner has entered into the application.

Claim Rejections - 35 USC § 102

3) The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4) Claims 1-2, 4-6 and 15 are rejected under 35 U.S.C. 102(e) as being unpatentable by Provanzana et al (U.S. Pat 6,522,031).

Referring to claim 1, Provanzana teaches a method for running an electric energy storage system which is set up at an electric energy consumer (col. 4 lines 42-55) and capable of controlling an electric energy to be purchased by the electric energy consumer by controlling charge and discharge (col. 4 line 55 through col. 5 line 13), wherein a running pattern of charge and discharge of the electric energy storage system is previously programmed, and the run of the electric energy storage system is controlled on the basis of the previously programmed running pattern (col. 10 lines 9-27).

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Referring to claim 2, Provanzana teaches that the programmed running pattern is input in a computer control means to control the run of the electric energy storage system by the computer-control means on the basis of the programmed running pattern (col. 10 lines 9-27).

Referring to claim 4, Provanzana teaches that an electric fee is always optimized by observing information on purchase of electric power by the electric energy consumer with a communication means and giving instruction to correct running conditions of the electric power storage system (col. 9 lines 15-31).

Referring to claim 5, Provanzana teaches that a scale of the electric energy storage system to be introduced is determined so that an electric energy consumption peak is not generated by shaving the electric energy consumption peak in a time zone having the highest peak of electric energy consumption in a situation of electric energy consumption by the electric energy consumer by increasing an amount of consumable electric energy by discharge running of the electric energy storage system and by charge running of the electric energy storage system in the other time zones (col. 9 line 61 through col. 10 line 38).

Referring to claim 6, Provanzana teaches that the scale of the electric energy storage system to be introduced is determined so that an electric fee is reduced by increasing a rate of electric energy purchased by the electric energy consumer in a night time zone by discharge running of the electric energy storage system in a daytime zone and charge running of the electric energy storage system in a nighttime zone (col. 9 lines 15-31).

Referring to claim 15, Provanzana teaches that the electric energy consumer is the enduser of the electric energy (col. 4 lines 42-55).

Claim Rejections - 35 USC § 103

- 5) The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6) Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Provanzana.

Referring to claim 3, Provanzana teaches the method above. However, Provanzana does not explicitly teach that the running pattern is programmed so that a consumption rate of electric energy stored in the electric energy storage system becomes 80% or more.

It is respectfully submitted that the consumption rate of electric energy stored in the electric energy storage system could be any percentage, including 80%, and the skilled artisan would have found it an obvious modification make the consumption rate 80% or more in the method taught by Provanzana with the motivation that a high consumption rate would allow for less dependence on power directly from utility suppliers, particularly during high rate times, which would provide a cost savings.

9) Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Provanzana, further in view of Suzuki et al (U.S. Pat 6,487,508).

Referring to claim 7, Provanzana teaches the method above. However, Provanzana does not explicitly teach that the electric energy storage system is a system using a sodium sulfur battery.

Suzuki teaches an energy supply system whereby sodium sulfur batteries are used to store excessive power that is produced (col. 3 lines 32-45).

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Therefore, it would have been obvious to one skilled in the art at the time the invention was made to utilize sodium sulfur batteries in the method taught by Provanzana since these could be used to store excessive power produced during nighttime and discharge the power during the daytime (Suzuki, col. 5 lines 6-16).

Response to Arguments

Regarding arguments referring to claims 3 and 7, examiner notes that the features which Applicant relies (i.e., using an 80% consumption rate to maintain a high temperature in a sodium sulfur battery to ensure proper operation) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). As such, the Examiner respectfully submits that Applicant fails to appreciate the breadth of the claims as presently amended.

All other arguments in the amendment filed 12/15/03 are rendered moot in view of the new rejection above.

Conclusion

8) Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander J Kosowski whose telephone number is 703-305-3958. The examiner can normally be reached on Monday through Friday, alternating Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo Picard can be reached on 703-308-0538. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306. In addition, the examiner's RightFAX number is 703-746-8370.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

LP.P.

Alexander J. Kosowski Patent Examiner Art Unit 2125

> LEO PICARD SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100